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1 [The intrinsic problems of structural heterogeneity and an approach to their solution](#)

Theo Härder, Günter Sauter, Joachim Thomas

April 1999 The VLDB Journal — The International Journal on Very Large Data
Bases, Volume 8 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(132.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 41, Citation Count: 3

This paper focuses on the problems that arise when integrating data from heterogeneous sources in a single, unified database view. At first, we give a detailed analysis of the kinds of structural heterogeneity that occur when unified views are derived ...

Keyw ords: Heterogeneity, Legacy systems, Mapping language, Schema integration, Schema mapping, Updatable views

2 Speeding up search in peer-to-peer networks with a multi-way tree structure



H. V. Jagadish, Beng Chin Ooi, Kian-Lee Tan, Quang Hieu Vu, Rong Zhang

June SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: [pdf\(368.28 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 241, Citation Count: 1

Peer-to-Peer systems have recently become a popular means to share resources. Effective search is a critical requirement in such systems, and a number of distributed search structures have been proposed in the literature. Most of these structures provide ...

Keywords: multi-way tree structure, peer-to-peer, system architecture

3 Efficient algorithms for Web services selection with end-to-end QoS constraints



Tao Yu, Yue Zhang, Kwei-Jay Lin

May ACM Transactions on the Web (TWEB), Volume 1 Issue 1
2007

Publisher: ACM

Full text available: [pdf\(832.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 1138, Citation Count: 0

Service-Oriented Architecture (SOA) provides a flexible framework for service composition. Using standard-based protocols (such as SOAP and WSDL), composite services can be constructed by integrating atomic services developed independently. Algorithms ...

Keywords: End-to-end QoS, Web services, service composition, service oriented architecture (SOA), service selection

4 A clean slate 4D approach to network control and management



Albert Greenberg, Gisli Hjalmtysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, Hong Yan, Jibin Zhan, Hui Zhang

October ACM SIGCOMM Computer Communication Review, Volume 35 Issue 5
2005

Publisher: ACM

Full text available: [pdf\(313.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 208, Citation Count: 7

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the ...


Keywords: control, network management, robustness

5 Behavioural modelling and simulation for heterogeneous design applied to aerospace inertial microinstrumentation development

B. Lorente, R. Aragonés, J. Oliver, C. Ferrer

July SCSC: Proceedings of the 2007 summer computer simulation conference 2007

Publisher: Society for Computer Simulation International

Full text available:  [pdf\(207.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

The extended use of microelectromechanical systems (MEMS) in the development of new microinstrumentation for aerospace applications, which combine extreme sensitivity, accuracy and compactness, introduced the need to simplify their design process in ...

Keywords: UML, VHDL-AMS, behavioral modeling, design methodology, distributed architecture, smart inertial sensors

6 A principled approach to operating system construction in Haskell



Thomas Hallgren, Mark P. Jones, Rebekah Leslie, Andrew Tolmach

September 2005 ACM SIGPLAN Notices, Volume 40 Issue 9

Publisher: ACM

Full text available:  [pdf\(154.82 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 90, Citation Count: 7

We describe a monadic interface to low-level hardware features that is a suitable basis for building operating systems in Haskell. The interface includes primitives for controlling memory management hardware, user-mode process execution, and low-level ...


Keywords: Haskell, hardware interface, monads, operating systems, programming logic, verification

7 Validate an e-mail address with PHP, the right way

Douglas Lovell

June 2007 Linux Journal, Volume 2007 Issue 158

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(24.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 165, Citation Count: 0


Not all that glitters is gold.

8 Exploiting high-level coherence information to optimize distributed shared state



DeQing Chen, Chunqiang Tang, Brandon Sanders, Sandhya Dwarkadas, Michael L. Scott
October 2003 ACM SIGPLAN Notices, Volume 38 Issue 10

Publisher: ACM

Full text available:  [pdf\(841.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 44, Citation Count: 0

InterWeave is a distributed middleware system that supports the sharing of strongly typed, pointer-rich data structures across a wide variety of hardware architectures, operating systems, and programming languages. As a complement to RPC/RMI, InterWeave ...

9 Hardware-based IP routing using partitioned lookup table

Mohammad J. Akhbarizadeh, Mehrdad Nourani

August 2005 IEEE/ACM Transactions on Networking (TON), Volume 13 Issue 4

Publisher: IEEE Press

Full text available:  [pdf\(580.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 109, Citation Count: 0

We present a search algorithm implementable by a parallel architecture based on partitioned forwarding table. This scheme effectively reduces the complexity of finding "the longest prefix match" problem to "a prefix match" problem. The main feature of ...


Keywords: IP address, content addressable memory, forwarding table, internet protocol, longest prefix matching, partitioned forwarding

10 We Talk to Everybody

Marjorie Richardson, Jason Schumaker, David Penn

June 2000 Linux Journal, Volume 2000 Issue 74es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(96.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 58, Citation Count: 0


A quick look at some of the people who helped make Linux possible.

11 An Introduction to JDBC

Manu Konchady

November 1998 Linux Journal, Volume 1998 Issue 55es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(15.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 64, Citation Count: 0

Mr. Konchady presents some of the benefits of using Java over CGI as well as the basics of managing a departmental database with Java

12 From relative to observable proportional differentiation in OBS networks



Pablo Argibay-Losada, Andrés Suárez-González, Manuel Fernández-Veiga, Raúl

Rodríguez-Rubio, Cándido López-García

October CoNEXT '05: Proceedings of the 2005 ACM conference on Emerging 2005 network experiment and technology

Publisher: ACM

Full text available:  [pdf\(281.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 17, Citation Count: 0

This paper addresses the provision of proportional differentiated services to an arbitrary number of traffic classes in terms of the class *packet* loss probability measured between the ingress node and the egress node of an OBS network. Our solution ...

Keyw ords: optical burst switching, proportional differentiation

13 Critical approach to 3D virtual realities for group work



Samuli Pekkola

October 2002 NordiCHI '02: Proceedings of the second Nordic conference on Human-computer interaction

Publisher: ACM

Full text available: [pdf\(536.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 115, Citation Count: 2

Collaborative virtual environments (CVEs) have been studied extensively during the past few years. In this paper, the concept of virtual reality (VR), and its value for group work are critically examined. To ground the discussions, experiences from a ...

Keywords: CSCW, CVE, group work, user interface, virtual reality

14 A layered approach to simplified access control in virtualized systems



Bryan D. Payne, Reiner Sailer, Ramón Cáceres, Ron Perez, Wenke Lee

July 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 4

Publisher: ACM

Full text available: [pdf\(418.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 279, Citation Count: 0

In this work, we show how the abstraction layer created by a hypervisor, or virtual machine monitor, can be leveraged to reduce the complexity of mandatory access control policies throughout the system. Policies governing access control decisions in ...

Keywords: information flow, layering, mandatory access control, policy, security, virtualization

15 Self-aware management of IP networks with QoS guarantees

Francine Krief

September 2004 International Journal of Network Management, Volume 14 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(204.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 101, Citation Count: 0

Self-aware management allows the network to react and to adapt to changes of situation. In this paper an architecture is described for self-aware management of IP networks offering QoS guarantees. This architecture uses policy-based management and multi-agent ...

16 [Context-aware middleware architecture for vertical handover support to multi-homed nomadic mobile services](#)



Pravin Pawar, Katarzyna Wac, Bert-Jan van Beijnum, Pierre Maret, Aart van Halteren, Hermie Hermens

March 2008 SAC '08: Proceedings of the 2008 ACM symposium on Applied computing 2008

Publisher: ACM

Full text available: [pdf\(415.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

To accommodate the requirements such as high usability and personalization of 4G (mobile) networks, conventional handheld single network-interface mobile devices are evolving into multi-homed devices. Moreover, owing to the recent advances in the mobile ...

Keyw ords: M-health services, context-aware computing, end-to-end QoS, multi-homing, nomadic mobile services, vertical handover

17 [From information visualization to direct manipulation: extending a generic visualization framework for the interactive editing of large datasets](#)



Thomas Baudel

October 2006 UI ST '06: Proceedings of the 19th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available: [pdf\(1.69 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 167, Citation Count: 0

Today's generic data management applications such as accounting, CRM or logging and tracking software, rely on form and menu based interfaces. These applications take only marginal advantage of current graphical user interfaces. This is because the data ...

Keyw ords: database user interfaces, direct data editing, direct manipulation, information visualization

18 [Building Systems to Be Shared, Securely](#)



Poul-Henning Kamp, Robert Watson

July 2004 Queue, Volume 2 Issue 5

Publisher: ACM

Full text available: [pdf\(575.43 KB\)](#) [html\(41.37 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 79, Citation Count: 1

19 [Porting RTOS device drivers to embedded Linux](#)

Bill Weinberg

October 2004 Linux Journal, Volume 2004 Issue 126

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(22.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 74, Citation Count: 0

Your old real-time operating system made you do a lot for yourself as a driver author. Take advantage of the facilities Linux offers and clean up some spaghetti code while you're at it.

20 [Risks to the public](#)



Peter G. Neumann

July 2007 ACM SIGSOFT Software Engineering Notes, Volume 32 Issue 4

Publisher: ACM

Full text available:  [pdf\(319.47 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 185, Citation Count: 0

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